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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,932	02/11/2002	Corrie L. Carnes	32357	8602
7590	11/07/2006		EXAMINER	
HOVEY WILLIAMS LLP Suite 400 2405 Grand Kansas City, MO 64108			BOS, STEVEN J	
			ART UNIT	PAPER NUMBER
			1754	

DATE MAILED: 11/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/074,932	CARNES ET AL.
Examiner	Art Unit	
Steven Bos	1754	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 14 September 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-11,45,67 and 68 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-11,45,67,68 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 14, 2006 has been entered.

The disclosure is objected to because of the following informalities: on instant pg. 8, line 31 of the specification there is missing text.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: in claims 1,45,67,68, "CAS" is not recited in the instant specification.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-11,45,67,68 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to

one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

In claims 1,45, "said composition presenting a surface area of between 135-834 m²/g" is new matter. Instant Tables 5 and 6 do not support this claim language because Table 5 only supports a surface area range of 559-815 for Al₂O₃/MgO at a molar ratio of 1/1 and Table 6 only supports single composition material surface areas and not a range of surface areas since each surface area is for a different composition.

Claims 1-11,45,67,68 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for Al₂O₃/MgO with a molar ratio of 1/1 having a surface area of 559-815, does not reasonably provide enablement for a composition of at least two different nanocrystalline materials of oxides and hydroxides of Groups IIA,IIIA,IVA, transition metals and lanthanide series of the CAS Periodic Table presenting a surface area of 135-834 m²/g. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims. The instant claims comprise a composition of an oxide or hydroxide of a lanthanide such as Nd and a transition metal such as W presenting a surface area of 135 for which there is clearly no support in the instant specification.

Claims 1-4,6-11,45 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 00/38282.

WO '282 suggests the instantly claimed nanocrystalline metal oxide composition having the instantly claimed product characteristics and which are co-solidified (see pg. 10) and would appear to be dispersed in a matrix and intimately intermingled. See pp. 9,12,14.

WO '282 may differ in that it overlaps the instantly claimed product characteristics and the instantly claimed process is not stated.

The subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the range disclosed by the reference because overlapping ranges have been held to be a *prima facie* case of obviousness, see *In re Malagari*, 182 USPQ 549.

Any difference imparted by the product by process limitations would have been obvious to one having ordinary skill in the art at the time the invention was made because where the examiner has found a substantially similar product as in the applied prior art the burden of proof is shifted to the applicant to establish that their product is patentably distinct not the examiner to show the same process of making, see *In re Brown*, 173 USPQ 685, *In re Fessmann*, 180 USPQ 324, *In re Spada*, 15 USPQ2d 1655, *In re Fitzgerald*, 205 USPQ 594 and MPEP 2113.

Claims 1-11,45,67,68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsui '112 or Inui '582.

Matsui and Inui each suggest the instantly claimed product because each teaches the instantly claimed process of making oxide and hydroxide compositions of at

least magnesium hydroxide-aluminum hydroxide and the corresponding oxide thereof.

See cols. 3,4 and the example of Matsui and cols. 4,6-8 of Inui.

Matsui and Inui may differ in not stating the instantly claimed product characteristics however these would be expected in the products formed by the taught processes because the taught processes are the same as that instantly claimed and disclosed.

Applicant's arguments filed September 14, 2006 have been fully considered but they are not persuasive.

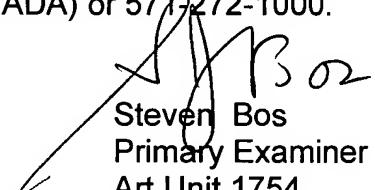
Applicant's amendments have overcome the cited prior art of Matsui '112 and Inui '582 and WO '282.

The Declaration of Dr. Olga Koper is not persuasive as it is merely declarant's opinion, others skilled in the art may have a different opinion.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is 571-272-1350. The examiner can normally be reached on M-F, 8AM to 6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stan Silverman can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Steven Bos
Primary Examiner
Art Unit 1754

sjb